Haier SERVICE MANUAL

Order No.

Refrigerator

MODEL: RDXD910SS/C

RDXD910GB/C RDXD910CR/C





This service information is designed for experienced repair technicians only and is not designed for use by the general public. It dose not contain warnings and cautions to advice non-technical individuals of potential dangers in attempting to service a product. Product powered by electricity should by serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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Haier Group

SERVICE MANUAL

Model: RDXD910SS/C、GB/C、CR/C

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Chapter 1 General Information

1-1. General Guidelines

When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

- Leakage Current Cold Check
- Leakage Current Hot Check
- 3. Prevention of Electro Static Discharge (ESD) to Electrostatic Sensitive

1-2. Insurance test

- 1. Check if there is any leak of current.
- 2. Cut out the power supply before the repair to avoid an electrical shock hazard.
- 3. In the case of a live-line test, insulating gloves should be worn to avoid potential electrical shock.
- 4. Confirm the rated current, voltage and capacity before testing with any kinds of instruments.
- 5. Watch if the upper door is open when you check something at a lower position.
- Take out every part in the cabinet before moving the machine, especially things like panels (e.g. glass shelf).
- Please wear intact cotton gloves when repair any parts of the evapor ator, so that scr atches by the sharp fins can be avoided.
- If there is a breakdown with the refrigeration system, please surrender the machine to the service center, else the leaked refrigerant may pollute the atmosphere.
- The refrigerator use AC of 220V with a frequency of 50~60Hz.
- 10. A big fluctuation of voltage (exceed the range 187~242V) may cause a start failure of the refrigerator, a burn -out of the control panel and compressor, or an a bnormal sound from the compressor in operation. In this condition an automatic voltage regulator over 750W should be added.
- 11. Take care not to damage the supply line. Don't yank at the line; pull the plug out gently from the receptacle. Don't press the line under the cabinet or step on it. Take care not to roll on or damage the supply line when moves the machine from the wall.
- 12. In the case of leakage of inflammable gases like carbon monoxide, open the door and windows. Don't pull out or insert the plugs of the appliance.
- 13. Don't touch the refrigeration surface of the freezing compartment when the refrigerator is in operation, especially when your hand is wet, else you may be glued to the surface.
- 14. Pull out the plug of power supply during clearance or power outage. Wait at least five minutes to resume the power supply in order to prevent damage to the compressor caused by continuous restart.

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Photo used in this manual

The illustration and photos used in this Manual may not base on the final design of products, which may differ from your products in some way.

1-3. How to read this Service Manual

1-3-1. Using Icons

The meaning of each icon is described in the table below:





A "note" provides information that is not indispensable.

Caution:



A "caution" is used when there is danger, through incorrect manipulation, may damage equipment, loose data, get an unexpected result or has to restart (part of) a procedure.

Warning:



A "warning" is used when there is danger of personal injury.

Reference:



A "reference" guides to find additional information on a specific topic.

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Chapter 2 Product Feature

2-1. SPECIFICATIONS

1	Model		RDXD910SS/C RDXD910GB/C RDXD910CR/C
	Photo		
	Product description (Refrigerator/Freezer)		Refrigerator-Freezer
	Type of appliance (FS=free standing / BI= built-in)		FS
	Type of cooling system(NF=no frost/ S=static)		NF
	Climate class*		SN, N, ST, T
	Freezer compartment / Star rating		4*
2	Key features		
	Total gross volume	L	623
	Total storage volume	L	510
	Defrosting (M=manual A=automatic)		A
	Energy consumption / year	kWh	420
	Frost free system		yes
	Defrost water outlet		yes
	Air circulating ventilator		yes
	Kind of coolant		R600a 75g
	Foaming components		C-P
3	Technical data		
	Voltage / frequency	V/Hz	220-240V/50Hz
	Temperature range (from>to)	°C	-18~ 10
	InputPower	W	220
	Cooling system: K=Compressor / A=Absorption		К
4	Door:		
	F= flat / R= rounded / S= streamline		S
	Inside color		w
	Hinged (r =right I =left) / reversible		R/L
	Freezing compartment integrated with door		Yes
	Shelves:		
	Number Fridge / Freezer		4/-
	Type (gr=grill / g=glass / p=plastic)		g/ p
	Color w-white / g=green / t=transparent.		t

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	Adjustable (Y=yes / N=not)		Yes
	Drawers:		
	Plastic drawers (fully freezing comp.)	n°.	2
	Half freezing comp	n°.	2
	Color of drawer (w=white/t=transp./g=green)		w/t
	Crisper:		
	Chiller / Meat (salad crisper) transparent / white		Chiller (t)
	Vegetable crisper(s) transparent / white		t
5	Equipment & accessories		
	Control panel:		
	Interior / exterior		Interior
	Thermometer interior / exterior		Interior
	Over temperature alarm LED / acoustic		Yes
	Adjustable thermostat		Yes
	Fast freeze switch /-function		Yes
	Deodorizing		Yes
	Interior light		Yes
	Freeze pack(s)	n°	2
	ice maker Manual/ Automatic		A
	Ice cube tray(s)	n°	1
	Adjustable feet front / rear	n°	2 /FRONT
	Castors front / rear		-/yes
	Length of cable/incl plug	cm	245
	Condenser Back / Integrated		В
6	Product dimensions		
	Unit dimensions (H/W/D)	cm	182/91/77
	Net weight	kg	146
7	Packing dimensions & load ability		
	Packing dimensions (H / W / D)	cm	186/98/76
	Gross weight	kg	158
8	Service		
	User manual		English

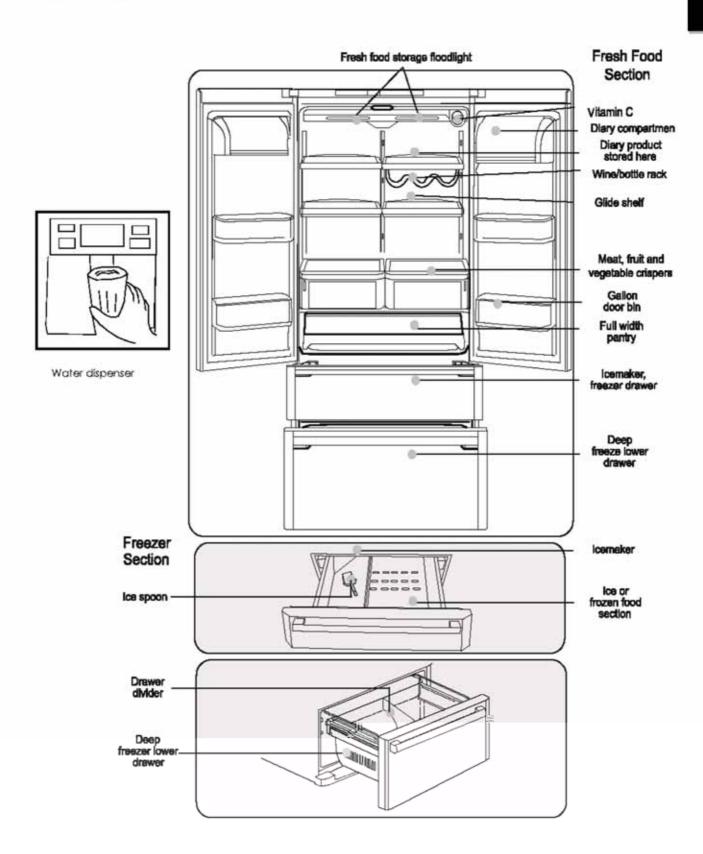
2-2. Main Functions

- Automatic icemaker
- Foldaway wine holder.
- Large crisper with humidity adjustment.
- Holiday function.
- Fridge storage compartment can be set on/off separately.
- Intelligent alarm function: automatic alarm at over temperature, malfunction, door open.
- Cold water dispenser

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2-3. External views

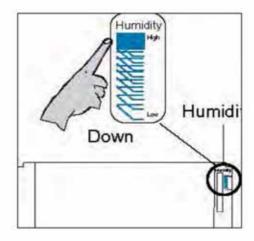


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2-4. How to User the Crisper

The appliance is equipped with a crisper for vegetable and fruit storage. You can set the humidity to meet your storage needs.

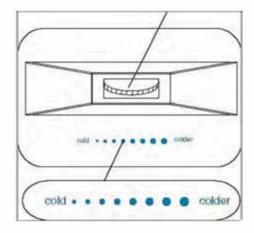


- 1. Turn the humidity regulator (located at the upper right Humidity regulator corner of the crisper) up to get a higher humidity suitable for storage of cucumber, grape, kiwifruit and persimmon etc.
- 2. Turn the humidity regulator (located at the upper right corner of the crisper) down to get a lower humidity suitable for storage of strawberry, orange, bean, garlic, watermelon, plum and tomato etc.

2-5. How to Use the Delicatessen Drawer

The appliance is equipped with a delicatessen drawer with a temperature range from-2°C~+3°C. The temperature can be adjusted by the air control knob to meet your storage needs.

- Turn the air control knob left (weak) to reduce the cooled air moving in the delicatessen drawer and maintain a higher temperature;
- 2. Turn the air control knob right (strong) to increase the cooled air moving in the delicatessen drawer and maintain a lower temperature.



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Chapter3 Disassembly

3-1. Door handle installation

3-1-1.Refrigeration door handle

- 1. Retrieve the handle clearly marked for the Refrigerator Door that needs attachment.
- Insert the Handle Connecting Screws into the holes provided on the Refrigeration Door. Using a hand held screwdriver tighten the Handle Connecting Screw until the screw threads disappear and the first flat surface of the Handle Connecting Screw tou ches the Refrigerator Door surface (as shown in illustration1- step2). Do not over tighten-damage to the door can occur.
- Place the Refrigeration Door Handle onto the Handle Connecting Screws using the upper hole of the "Top" Refrigeration Door Handle (as shown in illustration 1-step3); The Refrigeration Door Handle should rest comfortably to the door on these Connecting Screws.
- 4. Insert the Connecting Bolt into the hole at the top of the Refrigerator Door Handle. Using the provided Hex Driver and tighten until the handle is fixed firmly to the door. Repeat this process for the "Bottom" of the Refrigeration Door Handle (as shown in illustration 2-step4). Be careful when tightening not to scratch the door surface.
- Place Bolt Covers into the holes on the handle at the top and bottom and push into place (as shown in illustration2- step5).
- 6. To disassemble the Refrigeration Door Handle, follow these directions in reverse.

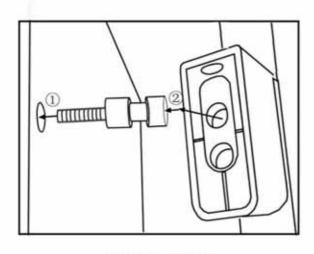


Illustration 1

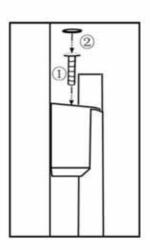


Illustration 2

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3-1-2.Freezer door handle

- 1. Retrieve the handle clearly marked for the Freezer Door that needs attachment.
- Insert the Handle Connecting Screws into the holes provided on the Freezer Door. Using a hand held screwdriver tighten the Handle Connecting Screw until the screw threads disappear and the first flat surface of the Handle Connecting Screw touches the Freezer Drawer surface (as shown in illustration1- step2). Do not over tighten-damage to the door can occur.
- Place the Freezer Drawer Ha ndle onto the Handle Connecting Sc rews (as shown in illustration1

 –step3). The Freezer Drawer Handle should rest comfortably on these Connecting Screws.
- 4. Insert the C onnecting Bolt in to the holes on the bottom of the Freezer Drawe r Handle marked "Left". Using the provided Hex Driver and tighten until the handle is fixed firmly to the door. Repeat this process for the "Right" side of the Freezer Drawer Handle (as shown in illustration 2-step4). Be careful when tightening not to scratch the door surface.
- 5. To disassemble the Refrigeration Door Handle, follow these directions in reverse.

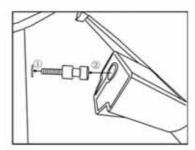


Illustration 1

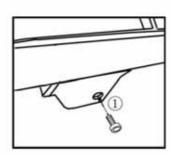


Illustration 2

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3-2 Inst alling and Removing Door

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△Precautions During Dismantling and Installation of The Door

You may not need to remove the doors! But if you have trouble getting the unit into its final lacation, please follow the below door removal and installation instructions. It is suggected, for your safety, to have two or more people to assist you in completing the below task to avoid bodily injury, product damage, or properly loss.

3-2-1. Right French Door Removal and Installation

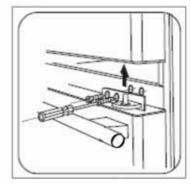
- 1. Remove the screws on the top hinge cover
- Using a screwdriver ,remove the top hi nge screws. Remove the hinge, then take the refrigerator door off and place it aside for the time being.
- Remove the middle hinge, if needed.
- 4. Install the refrigerant door in reverse sequence,

When lifting up the refrigerator hinge and separating it from the door body, please be careful not to drop the door slanted forward.









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3-2-2. Left French door removal and installation

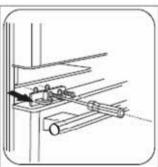
- 1. First remove the top hinge cover as above.
- 2. Disconnect the water line from back of unit
- Remove the hinge screws using a screwdriver, and take off the hinge, then remove the door body and place it in a safe position. Disconnect the wire cable connector, ground wire and pull water line out from cabinet.
- 4. Please remove the middle hinge, if needed.
- 5. Install the door in the reverse order.

When lifting the hinge as it separates from the door, be careful it does not lean for ward and fall, causing you bodily harm or damaging the door.



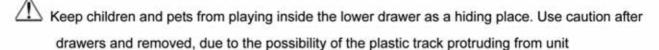




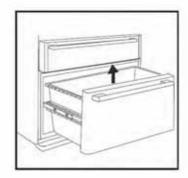


3-3. Removing and installing Lower Freezer Drawer (If required)

- 1. First open the drawer as far as possible, and then remove the screw on each side of the drawer.
- 2. Then pull the drawer body up and towards you, and put it aside in a safe place.
- 3. Install the drawer in the reverse order.







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3-4 Water line installation

Installation of connecting valves and plumbing must follow all local plumbing guidelines, laws and restrictions.

Install the shutoff valve on a cold water supply line that is frequently used

- Turn off the main water supplying pipe routine
 Turn on the nearest tap till the water pipe is cleaned completely
- 2. Choose the position of the valve

Choose a position for the valve that is easy to be approached. It is recommended that the valve is connected to the side of a vertical water pipe, and if it is really needed to connect the valve to a level water pipe. Connect it to the upside of the water pipe not the downside, in case the sediment may flow out from the water pipe.



Drill a hole of 1/4inches on the water pipe using a sharp drill (even using an automatic valve). Clean the burr left on the water pipe by the drill.

Use care not to allow water to flow into the drill

- 4. Tighten the shutoff valve
- 5. Tighten the pipe tip

Tighten the bolts of the pipe tip till the closing begins to expand. Don't let the bolts If the pipe tip be too tight, otherwise the water pipe is pressed flat.

6. The deposing line of the pipe

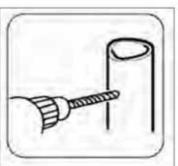
The deposing line between the cold water pipe and the refrigerator Drill a hole on the wall or on the floor that is near the wall to a great degree, and let the pipe line go through the hole

Assure the pipe has an enough margin area (about 8 inches [2.4 meters] and make it be three circles with the diameter of each circle about 10 inches [25centimeters].and after this installment is done, the refrigerator can be moved away from the wall.

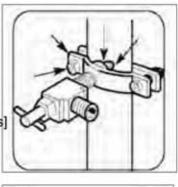
7. Connect the pipe to the valve

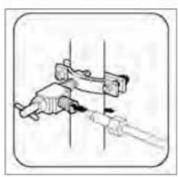
Put the Tightened nuts and the copper shaft on the end side of the pipe and connect the pipe to the stopping valve. Make sure that the pipe is cut into valve completely. Tighten and press the nut.











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8. Clean the Pipe

Power the main water supply till the water in the pipe becomes clean. Turn off the water valve after having used water of about 1V.

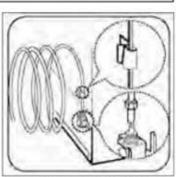
Connect the pipe to the refrigerator.



Before connecting the pipe to the refrigerator, make sure that the power line is not cut into the electric plug on the wall.

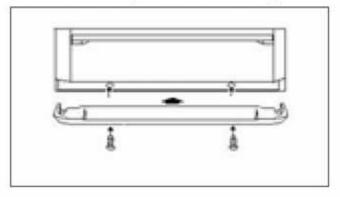
- Tighten the water pipe on the water valve and take the nut off the water pipe.
- (2) And then ,as shown in the figure ,connect the end side of the water pipe to the water valve; tighter the water pipe using tightening nuts.





3-5. Kick Plate Installation

The kick plate is packed in the fresh food compartment. Attach the panel with the screws provided.

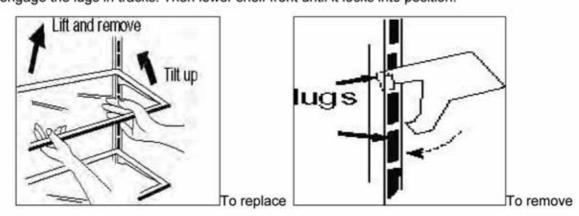


3-6. Height-adjustable Shelf

The height of shelf can be adjusted to meet your storage needs.

To adjust the shelf height, remove the shelf first. The steps are as follows:

1.tilt the shelf up at front, and lif t it up and out of tracks. 2. To replace the shelf, wi th shelf front rai sed slightly, engage the lugs in tracks. Then lower shelf front until it locks into position.

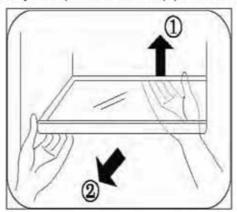


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3-7. Removing Crisper Cover

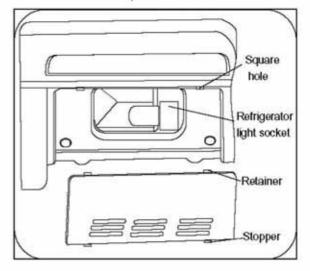
Take out the crisper and put it away.Lift up the cover end(1) and remove it (2)



3-8. Replacing the Light Bulb (refrigerator)

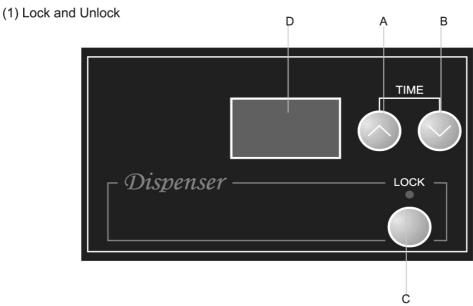
Bulb specifications: 220V~, 25W Socket: E14 (DO NOT use a bulb over 25W)

- 1. Unplug the appliance
- To remove the light shield, press the stopper
 At rear out of the square hole
 Pull the shield backward until the retainer is
 Separated from the square hole
- Turn the bulb anticlockwise and out. Replace a Bulb of the same specifications in the reverse sequence of removal.
- To replace the light shield: Engaged the retainer Into the square hole and then press the shield Rear forward until the stopper is locked in the square hole.



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Press Button C, after the first sound of the buzzer, the light indicator lock is in effect, and the clock settings are fixed, and the function of getting cold drinks is locked;

press Button C again, after the first sound of the buzzer, the light goes out, indicating the clock settings can be adjusted.

(2) Fresh Food temperature adjustment



Press Button J or Button K, the fresh food temperature control center will flicker, and when the temperature is set, the temperature range is 34 to 44 degrees F, and each time you press Button K,temperature will increase a level, till the highest temperature level is reached. Each time you press J, thetemperature will decrease a level, till the lowest temperature level is reached.

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Setting the Control Functions (cont'd)

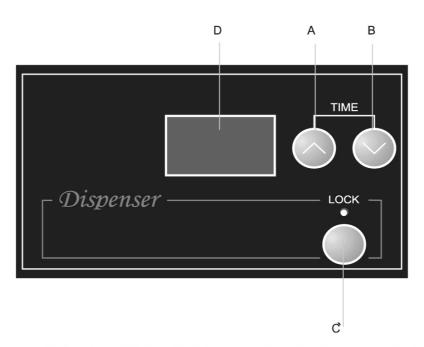
(3) Freezer temperature adjustment



Press Button F or Button G, on the freezer temperature control center, area H will flicker, and when the temperature is set, the range of the freezer is -16 \sim -22 $^{\circ}$ C.

Each time you press Button G, the freezer temperature will increase a level, till the highest temperature level is reached; each time you press Button F, the freezer temperature will decrease a level, till the lowest temperature level is reached.

(4) Time clock adjustment



When pressing Button A and Button B at the same time for three seconds, the time sign D will begin to flicker after the first sound of the buzzer. Press Button A to adjust the hours, each time you press Button A, one hour will be increased, till 12 hours is reached, then press Button A again, 01 will be shown. Press Button B to adjust the minutes, each time you press Button B, one minute will be increased, till 59 minutes is reached, then press Button B again, 00 will be shown.

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(5) Freezer quick-freeze setting



The function of quick-freeze is to freeze the food completely in the shortest time.

Press Button E, the quick-freeze button indicator lamp will be lighted, and the freezer will be in the quick-freeze mode . You can press Button E after 3 hours if you wish to end the quick freeze mode early.

(6) Fresh food quick-chill setting





When the refrigerator is in the quick-freeze or quick-chill modes, within the set time, the process of refrigerating remains constant without effectiing power

(7) Celsius / Fahrenheit switching function



Press Button F and Button G and Button J on the control center at the same time for three seconds, the Celsius will be in effect after the first sound of the buzzer. Press Button F and Button G and Button J on the control center at the same time for three seconds again, then Fahrenheit mode will be in effect after the first sound of the buzzer.

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Setting the Control Functions (cont'd)

(8) The water filter indicator setting



When the indicatior light of the water filter is lit, it means the water filter should be changed. After the water filter is changed, please press the water filter reset button M, and the indicatior light of the water filter N will go out.



When the water filter needs to be changed, please refer to the "water filter" section.

(9) Control Center Power Down

30 seconds after adjusting the control center buttons, the digital screen lighting will go out automatically, and if you press any button or open any door or activate the water dispenser, the screen will light again.

(10) Error codes

When errors in the control center occur ,there will appear on the digital screen particular alphanumeric codes. These are: F1, F2, F3, F5, F6, Ed, ER, E0, EI, E2. If this happens, please consult your servicer to have the refrigerator repaired.

(11) Door ajar alarm

When any door body is opened for over 60 seconds, the door ajar alarm function of the refrigerator will be started, and the refrigerator will produce buzzers at the intervals of 30 seconds, which alerts the user that there is a door left open.

(12) Power-breaking memorizing function

When the refrigerator cuts off from over-voltage protection, the state of the refrigerator before the power break is memorized, allowing the refrigerator to operate with the original default values prior to the event.

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Chapter 5 Control principle and i	ralatad taat funationa
Chabler 5 Control brincible and 1	related test functions

5-1. Air Damper

1 The refrig eration air d amper is controlled with the fresh food storage temperature sensor R SNR.

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- 2 The air damper is closed from the beginning of defrosting until 15 minutes after the defrosting is finished.
- 3 Upon initial powering on or resetting of the control panel, the air damper conducts a close-and-open cycle before acting according to the control conditions in item 1.
- 4 The air damper will be forced to conduct an open-and-close cycle if it has been closed for 1 hour.

 After that, its closing/opening will be controlled by R SNR.
- 5 The air damper will automatically close when REF. door has been opend over 2 minutes.

5-2. Control Principle of the Fan motor

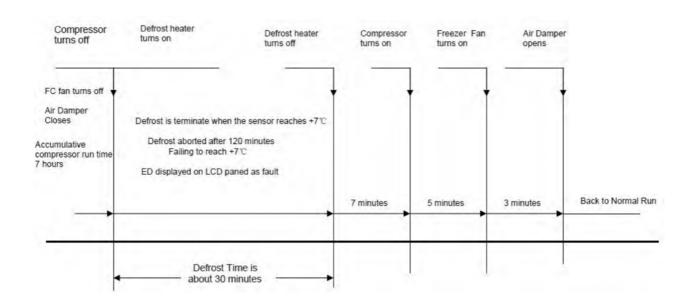
Control principal of the evaporator fan motor and fresh food damper.

- When a fresh food door is opened, the evaporator fan moto r will operate on high speed and the damper will be full open. After 2 minutes with the door open, the damper will close but the evaporator fan motor will operate according to the compressor function.
- 2. The evaporator fan motor will not operate if the freezer door is open, even if the fresh door is open.
- 3. An error code alerting of a fan motor problem will appear (see error code section) if the motor speed is below 300rpm or does not operate for longer than 30 seconds during the run cycle.

Condenser fan motor's controlling:

The motor works with compressor synchronous.condenser fan motor has a 12V's power supply voltage while the rotate speed 1150RPM on normal. And high speed operation is 13.5v - 1300rpm.

5-3. Defrosting Control Principle



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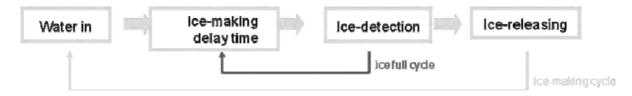
Defrost	Lastar	aantral	
Deirosi	neater	control	ruie

Defrost heater will be controlled according to the following:

- 1 The very first defrost will occur 4 hours after cabinet has been switched on or after a replacement control board fitted.
- 2 If the PC sensor temperature is greater than 10 ℃ a defrost will occur.
- 3 If the FC temperature is above −5°C a defrost will occur.
- 4 If the PC & FC doors have been opened more than 5 times before the cabinet has run for 5 hours after first being switched on.
- 5 If none of the above conditions (1) (2) (3) (4) have occurred a defrost will take place after 7 hours of accumulative run time, terminating when the defrost sensor reaches +7°C
- 6 The defrost will be aborted after 120 minutes with the defrost sensor failing to reach +7℃
- 7 Fault code ED will be displayed.
- 8 If the defrost sensor fails, a forced defrost will occur every 120 minutes.
- 9 If Fast freeze or fast fridge is selected while the cabinet is in defrost mode, these modes will not occur until the defrosting has been completed.

In order to minimize the rise in temperature while defrosting the system will go into advance cooling lower the FC temperature below the normal switch point by -3° C. If the cabinet cannot reach this temperature with in 30 minutes a forced defrost will occur.

5-4 Ice-making process



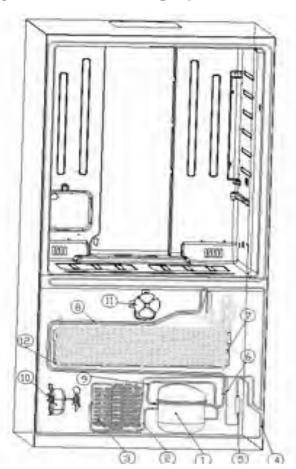
- 1. Water in: The machine let water into ice-maker after ice releasing action
- 2. Ice-making delay time: Include two conditions, one condition is that the ice-ma king time reach to 60 minutes, another condition is that the ice-maker senor te mperature is low er than -14°C. It must be meet these two conditions, the ice maker could overturn and make ice cube.
- 3. Ice-detection: When ice- maker is under working status, ice-measure st aff move downward firstly to detect if the ice is full. If the measure-staff can move to the lowest position, it means that the ice in ice-drawer is not full, and it can continue next ice-releasing action. If the measure-staff can not move to the lowest position, machine will take for the ice in ice-drawer is full, and return to ice-making delay time to wait another ice-detection action, and then come into being cycle.
- 4. Ice-releasing: If the result of ice-detection is not full, ice-box will rot eat to release ice. After ice-releasing, machine going on another water in action, and then come into being cycle.

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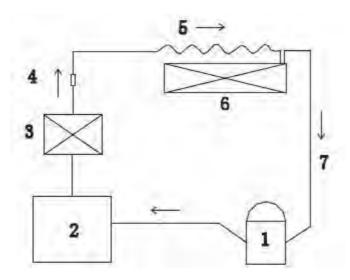
Chapter 6 System flow principle

6-1. System flow scenograph



- (1) Compressor
- (2) Hot connector pipe
- (3) Condensor
- (4) Freezer anti sweat tube
- (5) Drier filter
- (6) Capillary
- (7) Evaporator
- (8) Suction pipe
- (9) Connector pipe
- (10) Compressor DC fan motor
- (11) Freezer DC fan motor
- (12) Defrost steel tube heater

6-2. System flow chart

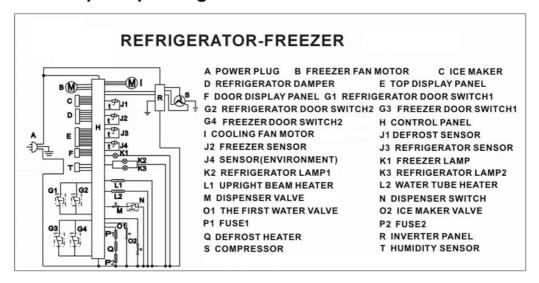


- (1) Compressor
- (2) Dew proof pipe
- (3) Condenser
- (4) Drier filter
- (5) Capillary
- (6) Evaporator
- (7) Connector pipe

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7-1. Brief principle diagram



7-2. Sensor and Error Code

Senor Position:

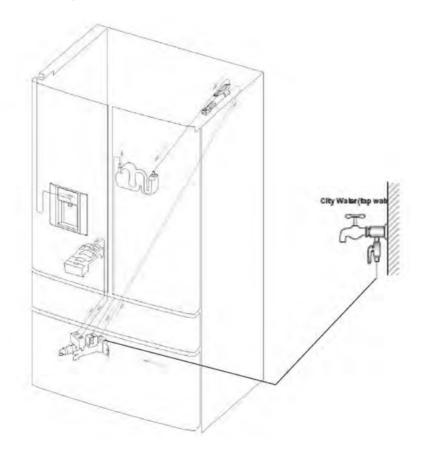


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8-2. Water line scenograph



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7-3.

ERROR CODE LISTS:

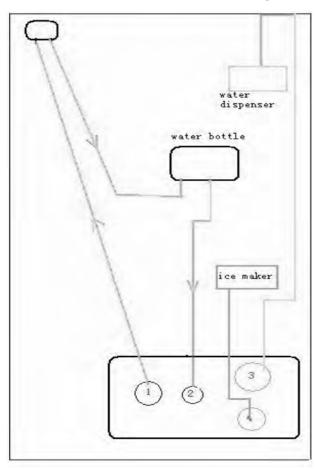
	Error	
Error description	Code	Meanings of Code
(R SNR) Refrigerator sensor malfunction	F3	R1 SNR short circuit or open circuit
(F SNR) Freezer sensor malfunction	F4	F SNR short circuit or open circuit
(RT SNR) Ambient temperature sensor malfunction	F2	RT SNR short circuit or open circuit
(D SNR) Defrost sensor malfunction	F6	D SNR short circuit or open circuit
(ICE SNR) Icemaker sensor malfunction	Fc	ICE SNR short circuit or open circuit
Freezer fan motor malfunction	E1	No single send out more than 30 seconds
Cooling fan motor malfunction	E2	No single send out more than 30 seconds
		Defrost sensor temperature can't reach to 7
		centigrade after temperature rise more than
Defrost Heating System error	Ed	2 hours
		Can't detect on/off single when icemaker
Icemaker system malfunction	Er	rotate

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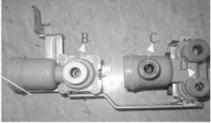
Chapter 8 Water Line Map

8-1. The water line sketch map









Connection the water pipes for the ice maker:

- 1. Connect tap water to the inlet A of the main valve
- 2. Connect the outlet B of the main valve to the water filter then connect the pipe to the water bottle.
- 3. The water that is chilled in the wate r bottle flows to the inlet C of the distributor, and then enters into pipe D through the icemaker valve to supply water to the icemaker;

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Chapter 9 Trouble shooting

9-1. Frequently problem

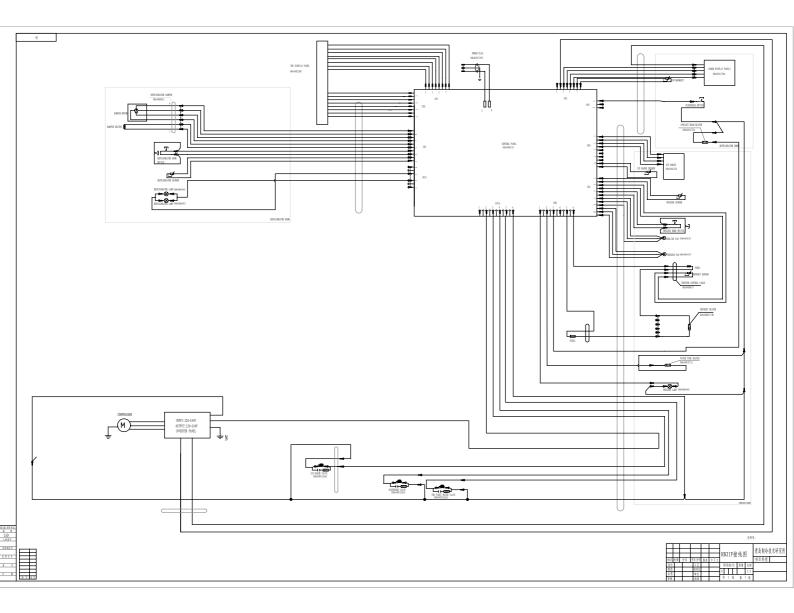
Water/moisture/frost in	the refrigerator	
Moisture accumulates on the refrigerators inner walls	 Hot and moist climate. The door is not closed tightly The door is opened too frequently or for too long time outside surface of the refrig Damp climate The refrigerator door is not closed tightly. This causes mixing of the cold air in the refrigerator with the warm air outside it 	 Accumulation of frost and mois accelerate in such climate. Make sure the refrige rator is level and there is no food or container interfering with the door Do not open the door so frequently erator It is normal in damp climate. The moisture will decrease when the humidity drops. Make sure the refrige rator is level and there is no food or container interfering with the door
Refrigerator operation		·
The compressor does not work	 The refrigerator is in defrosting cycle. The refrigerator is not plugged into a power outlet. The refrigerator is in OFF state. 	 It is normal for an auto matic defrosting refrigerator. Verify the pl ug is plugge d in the socket firmly. Press the "Power" button for 3 second or more to restart the refrigerator or turn the knob from O FF to temperature selection position.
The fridge storage compartment does not work	 The air door cable is not connected properly. The fan does not work The fridge storage compartment is turned off 	 Check if the air doo r cable is not connected properly and install it correctly if not so. V erify that the air door act s normally with the Fridge ON/OFF key on the display panel The fan does not work while the refrigeration air door is open. Please check if the door on-off behind the f ront decoration strip is instealled properly. Reinstall it correctly if not so. Turn on the fridge storage compartment manually
The refrigerator runs frequently or runs for too long period	 The indoor or outdoor temperature is high The refrigerator has been powered off for a period of time. The automatic icemaker is operating. The door is opened too frequently or for long periods. The door of the fridge / freezer storage compartment is not tightly closed. The temperature setting for the freezer storage compartment is too low 	 In this ca se, it is normal for the refrigerator to run longer. Normally, it takes 8 to 12 hours for the refrigerator to totally cool down. Icemaking process makes the refrigerator to run longer. Warm air enters the refriger ator and causes it to start frequently. Please do not open the door so frequently. Make sure the refrige rator is level place and ther e is no food or cont ainer interfering with the door. Set the temperature higher until satisfactory refrigerator temperature is obtained. It takes 24 hours for the refrigerator temperature to become stable.

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	 The door gasket of the fridge/freezer storage compartment is dirty, worn, cracked or mismatched. The condenser is dirty. 	 Clean or r eplace the door gasket. Leakage g ap of door g asket can cause longer running time of the refrig erator in order to maintain desired temperature. Clean the condenser.
Too high temperature	The contaction is unity.	- Clour the contaction
Too high temperature in the fridge/freezer storage compartment	 The door is opened too frequently or for too long periods of time Temperature is set too high The door is not closed tightly The condenser is dirty 	 Warm air will enter the refrigerator whenever the door is opened. Try to open the door as infrequently as possible. Reset the temperature. Make sure the refrig erator is on a level surface and there is no food or container interfering with the door. Clean the condenser.
The temperature in the freezer storage compartment is too high while the temperature in the fridge storage compartment is OK	The temperature is set too high	Set the freezer temperature lowe r. It takes 24 hours for the temperature of the refrigerator to become stable.
The temperature in the fridge storage compartment is too high while the temperature in the freezer storage compartment is OK	The temperature is set too high	Set the fridge temperature lower. It takes 24 hours for the temperatur e of the refrigerator to become stable.
Bad odors in the refrige		
The inside of the refrigerator is dirty	 The inside of the refrigerator needs cleaning Food with strong odor is stored in the refrigerator 	Clean the internal of the refrigeratorWrap the food tightly.
If you hear		
Beeps	 The fridge storage compartment door is open The temperature in the freezer storage compartment is too high 	 Close the door or silence the a larm manually The alarm is normal when it is first started due to relatively higher temperature.
Abnormal sound	 The refrigerator is not located on a level surface The refrigerator touches some object around it 	 Adjust the feet to level the refrigerator. Remove objects around it.
Slight sound similar to	It is the sound of the	Normal.
that of flowing water	refrigerating system	
Heating of cabinet	The de-dew tube is de-dewing	 It is a proce ss to prevent dewing. It is a normal phenomenon.



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